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	7E4238	
B.Tech. VII Semester (Old Back) Examination, Dec. - 2015		
Computer Science & Engineering		
7CS2(O) Wireless Communication & Networks CS, IT		

Time : 3 Hours

Maximum Marks : 80

Min. Passing Marks : 24

Instructions to Candidates:

Attempt any five questions, selecting one question from each unit. All questions carry equal marks. (Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.

Unit - I

1. a) Discuss Application of mobile Communication and Radio System around the world with suitable example of wireless communication. (8)
- b) Explain the concept of frequency Reuse in detail. (8)

OR

1. a) Explain the techniques used for the improvement of coverage and capacity in cellular systems. (8)
- b) What are the effects of Multipath propagation? Also explain transmission impairments (8)

Unit - II

2. a) Explain the need for specialized MAC in brief (8)
- b) Explain hidden and exposed, near and far terminal in detail. (8)

OR

2. a) What is GSM? Discuss system Architecture of GSM and mobile services. (8)
- b) Explain the concept of localization and calling. (8)

Unit - III

3. a) Describe the design goals; advantages and Disadvantages of wireless LAN (8)

- b) Explain infrared v/s radio transmission. (8)

OR

3. a) Explain link Manager protocol in detail also explain L2CAP (8)
b) Which standards are followed by Bluetooth discuss in brief? Also explain base band layer. (8)

Unit - IV

4. a) Define mobile IP? Discuss its goal and requirement of mobile IP. (8)
b) Discuss the terms Tunneling and encapsulation, reverse tunneling, and DHCP in brief (8)

OR

4. a) Explain mobile Adhoc network usage and routing in detail. (8)
b) Explain the concept of fast retransmit/fast recovery and transmission. (8)

Unit - V

5. a) Describe the file systems which support for mobility in wireless communication. (8)
b) Explain wireless datagram protocol and wireless transport layer security in detail. (8)

OR

5. a) Discuss the wireless application environment and markup language. (8)
b) Write short note on
i) Push / pull services.
ii) Wireless Session Protocol (4×2=8)